

SECRET

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East Germany

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Development Projects of the Berlin
Technical Bureau (BTB) of SAG Transmasch

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SUPPLEMENT TO
REPORT NO.

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THIS IS UNEVALUATED INFORMATION

1. Of all the development and construction projects assigned to the Berliner Technisches Bureau (BTB) of SAG Transmasch since 1951, only four projects have been completed. The models built at BTB for three of them were shipped to Russia. The four completed projects, all of them initiated by the Russian Academy of Sciences and passed to BTB through SAG Avtovele Headquarters, were as follows:

Project 2 M: Temperature study of motor (cylinder head, piston, bearings). The project was carried out under the supervision of engineer Paul Pott and completed in the fourth quarter of 1952. Immediately after completion, the installation and all designs and documents pertaining to it were shipped to Russia.

Project 3 M: Development of an installation to study vibrations, strains and distortions in automobiles. The project was carried out under the supervision of [redacted] It was completed in May 1953. The installation with all its documents was shipped to Russia shortly thereafter.

Project # A: Test stand for brakes and clutches. The project was carried out under the supervision [redacted] In June 1953 the completed installation, with all documents pertaining to it, was shipped to Russia.

Project II A: Development of a six cylinder air-cooled double-piston Diesel motor of 65 HP. This project was carried out under the supervision of Haehnel (fna) and completed during the first quarter of 1953. The motor has not been sent to Russia but has remained stored at BTR because SAC Artovelo, which passed the project order to BTR, was not willing to accept the motor after BTR had been transferred to SAC Transmasch. SAC Transmasch is not willing to accept the motor either.

2. The following list contains the development projects which have been assigned to NTF since 1951 and which are still in various stages of progress. All of these orders originated with the Russian Academy of Sciences and were passed on to NTF through SAG Avtovelo Headquarters.

CLASSIFICATION SECRET

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Project 1/4 M: Universal stand for the study of strain in automobile parts. [redacted] To be completed by the end of 1953.

Project 2/5 M: Development of instruments for measuring pressure and temperature in motors. Supervisor: [redacted] Originally to be completed in 1953, completion recently deferred to 1954.

Project 2/5 M: Development of an instrument for measuring Cardan shaft rotation movement. Supervisor: [redacted] Originally to be completed in 1953, completion recently deferred to 1954.

Project 3/5 K (A-D): Development of a single-cylinder universal test stand with temperature control installation (Klimaanlage). Supervisor: [redacted] To be completed in 1953.

Project 4/7 M: Development of an apparatus for the investigation of combustion and hydrodynamic processes within combustion motors. In particular:

- A. Flow test stand
- B. Carburetor test stand
- C. Single-cylinder Otto motor
- D. Single-cylinder Diesel motor
- E. Combustion bomb (Kugelbombe) with extraneous ignition
- F. Combustion bomb with internal ignition
- G. Combustion bomb injection
- H. Combustion process in tubes
- I. Knock meter:
 - a. measurement technology
 - b. motor installation

This Project 4/7 (A through I), which originally had great priority, was downgraded; completion date is now set for the end of 1954.

Project 5/8 L: Development of test stands for Otto, Diesel and gasoline motors - Supervisors: [redacted]

- A. 200 HP Otto: to be completed in fourth quarter 1953
- Ba. 300 HP Diesel: to be completed in fourth quarter 1953
- Bb. 200 HP Diesel: to be completed in fourth quarter 1953
- Bc. 2,500 HP Diesel: to be completed in 1954
- Bd. 4,500 HP Diesel: to be completed in 1954
- C. 200 HP gas: to be completed in fourth quarter 1953
- D. Temperature control installation: to be completed in the second quarter 1954

